



# Green Polyurethane™ Indoor Floor Coating

## Technical Data Sheet: FLI4 LP Grey

Rev. March 24, 2013

PROPERTIES	UNIT	STANDARD	VALUE
<b>General</b>			
Type of the product	Two-component hybrid nonisocyanate polyurethane compound		
Use	Compound for indoor abrasive, impact and chemical resistant floorings		
Substrate	Concrete, cement cover.		
Primer	Conventional primer might be required for some substrates		
<b>Physical Properties</b>			
Ratio of components (Base “A” : Hardener “B”)			100 A : 30 B <i>by weight</i> 100 A : 35B <i>by volume</i>
Viscosity after mixing (Brookfield RVDV II, Spindle 29, 100 rpm) at 77°F (25°C)	cP (mPa’s)	ASTM D2196	≤800
Color			Grey
Pot life at temperature:	°F (°C) min		59 (15)    77 (25) 180        120
Thickness of the coating	mils (mm)		20-120 (0.5-3)
Solids Content Part A	%		98-100
Volatile Content	%	ASTM D2369-10	Part A ≤ 2 Part B ≤ 2
Application temperature	°F (°C)		+ 59-77 (+ 15-25)
Curing time at temperature:	°F (°C)		59 (15)    77 (25)
❖ Dry-To-Touch Time	hours	ASTM D1640	8            4
❖ Walk on	hours		36          18
❖ Full cure	days		10          5
<b>Performance Properties</b>			
Impact resistance		ASTM D2794-93(2010)	
Tensile strength at break	psi (MPa)	ASTM D638-10	4200-7100 (29-49)
Tensile Elongation at break	%	ASTM D638	3-5
Hardness (Shore D)		ASTM D2240	75-85
Bound strength to concrete substrate		ASTM D4541 ACI 503.4-2322	Cohesive failure
Abrasion resistance	mg/1000	ASTM D4060	25-30



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(TABER, wheel CS-17, 1000g), loss of mass,	cycles		
Coefficient of Friction		ASTM D2047	
Thermal Testing	120 hours	ASTM C884/C884M-98(2010)	No cracking or delamination of samples
<b>Chemical and Stain Resistance</b>			
Water Absorption. Weight gain at immersion in water (24 h @ 77°F / 25°C)	%	ASTM D570-98(2010)e1	0.1- 0.5
Water resistance, immersion		ASTM D870-09	No change in color or blistering
Hydrochloric acid – 10 % HCl			Gloss reduction
Battery acid			No effect
Sodium hydroxide – 10 % NaOH			No effect
Sodium sulfate – 10 % Na <sub>2</sub> SO <sub>4</sub>			No effect
Gasoline			No effect
Diesel fuel			No effect
Motor oil			No effect
Brake fluid			No effect
Transmission fluid			No effect
Hydraulic fluid			No effect
Vegetable oil			No effect
Alcohol			No effect